

HISTORY

In 1971, the California horse industry sponsored legislation to prevent the misuse of medications in show and sale horses. The program has evolved over the years into today's Equine Medication Monitoring Program (EMMP) implemented by the California Department of Food and Agriculture (CDFA).

FUNDING

A \$5 fee, per horse, per event, funds the EMMP.

INTENT

The intent of California equine medication rules is to ensure the credibility of public horse **shows, competitions, and sales through the control of performance and disposition enhancing medications while limiting permitted therapeutic usage at horse shows and competitions.**

PROHIBITED SUBSTANCES

Prohibited substances are drugs and medications that: 1) affect performance or disposition, 2) mask or interfere with laboratory testing, or 3) are metabolites or derivatives of a prohibited substance. Categories of prohibited substances affecting performance or disposition include: **stimulants, depressants, tranquilizers, anesthetics, local anesthetics, sedative analgesics, anabolic steroids, corticosteroids, and soring agents.**

Examples:

Stimulants: Medications or drugs stimulating the central or peripheral nervous system, circulatory system, or respiratory system of horses, include but are not limited to: amphetamine, apomorphine, dexedrine, caffeine, desoxyephedrine, ephedrine, coramine, metrazol, nux vomica, benzedrine, clenbuterol, etorphine, ritalin, epinephrine, sublimaze, cocaine, etc.

Depressants: Medications or drugs depressing the central or peripheral nervous system, circulatory system, or respiratory system of horses include, but are not limited to: narcotics, barbiturates, chloral hydrate, morphine, morphine derivatives and substitutes, ketamine and phenothiazine.

Tranquilizers: Acepromazine®, Promazine®, etc.

Anesthetics: Halothane, methoxyflurane, enflurane, isoflurane, nitrous oxide, barbiturates, ketamine, etc.

Local Anesthetics: Medications or drugs causing loss of sensation or relief from pain, include but are not limited

to lidocaine, xylocaine, butacaine, mepivacaine, benzocaine, etc.

Sedative Analgesics: xylazine (Rompun®), butorphanol (Torbugesic®), detomidine (Dormosedan®).

Anabolic Steroids and Corticosteroids: Medications or drugs include but are not limited to: boldenone undecylenate (Equipose®), stanozolol (Winstrol V®), nandrolone, cortisone, hydrocortisone, prednisone, prednisolone, methylprednisolone, fluoroprednisolone, and dexamethasone.

Masking Agents: thiamine (large amounts)

Soring Agents: include but are not limited to kerosene, diesel fuel and oil of mustard.

NONSTEROIDAL ANTI-INFLAMMATORY DRUGS (NSAID's)

Phenylbutazone (Butazolidin®), flunixin (Banamine®), naproxen, meclofenamic acid (Arquel®), ketoprofen (Ketofen®).

PERMITTED THERAPEUTIC USAGE

Topical and oral cortisone products (eye, ear, and hive preparations) are permitted when prescribed or administered therapeutically (either administered or as prescribed by a licensed veterinarian).

NUTRITIONAL AND HERBAL SUPPLEMENTS, TONICS, PASTES, etc.

These products should be used with caution when the ingredients and quantitative analyses are not specifically known. The potential for these products to contain prohibited substances exists.

RESTRICTIONS FOR PROHIBITED SUBSTANCES AND NSAID's

HORSE SHOWS AND COMPETITIONS:

Prohibited substances are only permitted when administered or prescribed by a licensed veterinarian and under the following conditions:

- The horse must be withdrawn from show or competition for 24 hours following the last administration. (The withdrawal period for anabolic steroids is 90 days, and for reserpine and fluphenazine it is 45 days)
- A medication report (drug declaration) should be filed with the event manager describing any dosing within the 48 hours preceding the 24-hour withdrawal period.

Restrictions and suggested maximum dosing regimens for permitted NSAIDs:

- *Butazolidin® (phenylbutazone) and Banamine® (flunixin) cannot be used simultaneously, and therefore are not permitted to be in the same plasma or urine sample. When either has been administered within 7 days of competition, the use of the other is prohibited. Additionally, the maximum number of detectable NSAID's by laboratory analysis for any other combination of medications administered in accordance with these guidelines is strictly limited to two.*
- *Butazolidin® (phenylbutazone): administration should not exceed two grams (two of the one gram tablets) per day per 1000# horse. No part of a dose should be given less than 12 hours prior to competition.*
- *Banamine® (flunixin): administration should not exceed more than one packet of 500 mg. granules or 500 mg. oral paste or 10 cc of injectable (50 mg/ml) solution per day per 1000# horse. No part of a dose should be given less than 12 hours prior to competition.*
- *Ketofen® (ketoprofen): administration should not exceed more than one gram per day per 1000# horse. This is equivalent to 10 cc of injectable 100 mg/ml solution. No part of a dose should be given less than 4 hours prior to competition.*
- *Arquel® (meclofenamic acid): administration should not exceed more than one 500 mg. packet of granules per 1000# horse during any 12 hour period.*
- *Naproxen: administration should not exceed more than eight 500 mg. tablets per day per 1000# horse. No part of a dose should be given less than 12 hours prior to competition.*
- *Eltenac: administration (upon the approval by the FDA) should not exceed more than 250 mg. per day per 1000# horse. This is equivalent to 5.0 cc of the injectable (50 mg/ml) solution. No part of a dose should be administered during the 12 hours prior to competition. Eltenac should not be used for more than five successive days.*

Recommended dosages must be calculated accurately according to the weight of the horse.

NSAID administration based on these guidelines should ensure that the following maximum permitted detectable plasma levels will not be exceeded:

- 15.0 micrograms per milliliter of phenylbutazone
- 1.0 micrograms per milliliter of flunixin
- 250 micrograms per milliliter of ketoprofen
- 2.5 micrograms per milliliter of meclofenamic acid
- 40 micrograms per milliliter of naproxen
- 0.1 micrograms per milliliter of eltenac (upon approval) of eltenac by the Food and Drug Administration.

PUBLIC HORSE SALES:

The horse cannot be sold for *72 hours following the last administration (dosing) of any prohibited substance or NSAID. * (The withdrawal period for anabolic steroids is 90 days and the withdrawal period for reserpine and fluphenazine is 45 days).

A medication report (drug declaration) must be filed with the event manager describing any dosing within the 48 hours preceding the 72 hour withdrawal period.

FINAL CLASSIFICATION GUIDELINES

- CDFA evaluates each potential violation for specific compliance with California rules. In determining the degree or significance of any violation, CDFA considers whether compliance with the intent of California rules has been satisfied. In most cases, official sponsoring organization medication rules comply, with the exception of minor technicalities.
- In addition to complying with California medication rules, it is important for each horseman to be in compliance with any of their sponsoring organization's rules that might be more stringent, and for which infractions could be independently penalized for by that organization. **Specifically, if standards are in place at an event that are more stringent than California rules, that standard becomes the applicable standard for horsemen at that show.** (The effect of minor rule differences will be evaluated on a case-by-case basis. USEF medication rule inquiries should be directed to Dr. John Lengel, 800-633-2472).

PROCEDURE

Horses are randomly selected for test with emphasis on class winners at shows. Blood and urine samples are submitted for analysis to a certified laboratory.

PENALTIES

The law provides for civil penalties of not less than \$100 or no more than \$10,000. In addition, CDFA may suspend any trainer or owner from competitions for a period up to one year. Violators shall forfeit all prize money or sweepstakes and any trophies, ribbons, and points won at any public horse show or horse competition by such horse. The owner shall pay a fee of \$50 to the public horse show or horse competition. The horse may be suspended for any period of time specified by CDFA, or returned to the seller if the violation occurs at a horse sale.

For more information about EMMP contact:

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Sacramento, California 95814
Fax (916) 653-2215

Program Inquiries:
Event Registration and Administration
(916) 657-5230 or (916) 657-5050

Drugs and Medications:
Dr. Tim Boone
(916) 654-1267



California Department of Food and Agriculture

**Animal Health and
Food Safety Services**

Equine Medication Monitoring Program

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